

ABSTRACT

A system and method for provisioning multiple digital receivers may include providing a number of digital receivers, with each receiver having a programmable center frequency and being configured to receive digitized samples. Each of the digital receivers may include a low-pass digital filter. Pre-computed sets of filter coefficients may be maintained in non-volatile storage, each set corresponding to one of the low-pass digital filters, each filter having one of a predetermined set of bandwidths. A first center frequency and first bandpass bandwidth may be selected for provisioning the selected one of the digital receivers. The filter coefficients associated with the first bandpass bandwidth may be retrieved and subjected to a bandpass transformation corresponding to the first center frequency. The transformed filter coefficients may be loaded into coefficient latches in the selected one of the digital receivers.